

SEQUENCE LISTING

<110> O'Donohue, Michael R.  
Hanke, Paul D.

<120> Methods for Producing L-Amino Acids

<130> 1533.1010002

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<150> 60/150,017

<151> 1999-08-20

<150> 60/145,217

<151> 1999-07-23

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 1623

<212> DNA

<213> Corynebacterium glutamicum

<220>

<221> CDS

<222> (1)..(1620)

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Tyr Ser Asn Phe Gln Ala Thr Thr Leu Arg Glu Leu Phe Lys Glu Glu	
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aac cgc gcc gag aag tac acc ttc tcc gcg gct ggc ctc cac gtc gac	144
Asn Arg Ala Glu Lys Tyr Thr Phe Ser Ala Ala Gly Leu His Val Asp	
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ctg tcg aag aat ctg ctt gac gac gcc acc ctc acc aag ctc ctt gca	192
Leu Ser Lys Asn Leu Leu Asp Asp Ala Thr Leu Thr Lys Leu Leu Ala	
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ctg acc gaa gaa tct ggc ctt cgc gaa cgc att gac gcg atg ttt gcc	240
Leu Thr Glu Glu Ser Gly Leu Arg Glu Arg Ile Asp Ala Met Phe Ala	
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Gly Glu His Leu Asn Asn Thr Glu Asp Arg Ala Val Leu His Thr Ala	
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Leu Arg Leu Pro Pro Glu Ala Asp Leu Ser Val Asp Gly Gln Asp Val	
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Ser	Asp	Phe	Tyr	Gly	Ala	Glu	Thr	His	Ala	Val	Leu	Pro	Tyr	Ser	Glu		
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gat	ctc	agc	cgt	ttt	gct	gct	tac	ctc	cag	cag	ctg	acc	atg	gaa	tca	1056	
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 Gly Phe Ala Arg Pro Lys Gln Asp Leu Pro Ala Gly Glu Arg Thr Met  
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cat gac ctt ttg atg agc aac ttc ttc gca cag acc aag gtt ttg gct 1296  
 His Asp Leu Leu Met Ser Asn Phe Phe Ala Gln Thr Lys Val Leu Ala  
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ttc ggt aag aac gct gaa gag atc gct gcg gaa ggt gtc gca cct gag 1344  
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ctg gtc aac cac aag gtc atg cca ggt aat cgc cca acc acc acc att 1392  
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gct ccg gct gtc tct ggt gaa gag gat gtt gac tcg gga gat tct tcc 1584  
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&lt;211&gt; 540

&lt;212&gt; PRT

&lt;213&gt; Corynebacterium glutamicum

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Asn Arg Ala Glu Lys Tyr Thr Phe Ser Ala Ala Gly Leu His Val Asp  
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Leu Ser Lys Asn Leu Leu Asp Asp Ala Thr Leu Thr Lys Leu Leu Ala  
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Leu Thr Glu Glu Ser Gly Leu Arg Glu Arg Ile Asp Ala Met Phe Ala  
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 Gly Glu His Leu Asn Asn Thr Glu Asp Arg Ala Val Leu His Thr Ala  
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 Ala Ala Asp Val His Glu Val Leu Gly Arg Met Arg Asp Phe Ala Thr  
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 Phe Val Ser Asn Val Asp Pro Ala Asp Leu Val Ser Val Leu Glu Asp  
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 Thr Gln Glu Thr Leu Ser Asn Ala Arg Ala Ala Arg Ala Trp Leu Val  
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 Glu Lys Leu Gly Glu Glu Ala Val Ala Lys His Phe Val Ala Val Ser  
 225 230 235 240  
 Thr Asn Ala Glu Lys Val Ala Glu Phe Gly Ile Asp Thr Asp Asn Met  
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 Phe Glu Glu Asn Val Pro Ile Leu Met Ala Leu Leu Gly Val Trp Tyr  
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 Ser Asp Phe Tyr Gly Ala Glu Thr His Ala Val Leu Pro Tyr Ser Glu  
 325 330 335  
 Asp Leu Ser Arg Phe Ala Ala Tyr Leu Gln Gln Leu Thr Met Glu Ser  
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 Asn Gly Lys Ser Val His Arg Asp Gly Ser Pro Val Ser Thr Gly Thr  
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